



PUBLIC CONCERNS ABOUT FOSSIL-FUEL USE IN THAILAND

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Fossil Fuel use in Thailand



- **Coal**
- **Crude Oil**
- **Oil**
- **Natural Gas**

Thermal Power Major Pollutions

<u>Air</u>	<u>Noise</u>	<u>Water</u>	<u>Solid wastes</u>
<ul style="list-style-type: none">♦ SO_x♦ NO_x♦ Particulates		<ul style="list-style-type: none">♦ Thermal discharge♦ Chemical discharge	<ul style="list-style-type: none">♦ Ash♦ Scrubber by-product (Gypsum)♦ Waste Oil

Energy & related projects required for EIA

- ◆ Thermal Power Plant with capacity 10 MW or more
- ◆ Oil and Gas pipeline system for all sizes
- ◆ Related projects
 - Offshore Coal Unloading Facilities (port) with capacity for vessel of 500 gross ton or more

Energy & related project required for EIA (con't)

4. All Type of projects located in the areas approved by the Cabinet as class 1B watershed area (High voltage transmission line)
5. Coal mining for power plant

IPP (Independent Power Producers)

- ◆ Independent Power (Thailand) Natural Gas
700 MW
- ◆ Eastern Power & Electric Natural Gas
350 MW
- ◆ Tri Energy Natural Gas
700 MW
- ◆ Union Power Development Coal
1,400 MW

IPP (Independent Power Producers)

- ◆ Bowin Power
713 MW
Natural Gas
- ◆ BLCP Power
1,346.5 MW
Coal
- ◆ Gulf Power Generation
734 MW
Coal

Public concerns about Mae Moh Power Plant

- ◆ SO₂ Problems
 - Installation of Flue Gas Desulfurization (FGD)
 - FGD examination during installation and operation
 - Compensation for loss and damage on human health, plants and animals in affected areas
 - Relocation of local people

Public concerns about Mae Moh Power Plant (con't)

- ◆ Additional public concerns in 1998
 - Reduction of ambient air quality standards of SO_2
(more strict than other area)
 - Installation of more FGD
 - Installation of ambient air quality monitoring stations

Public concerns about Hin Krut Power Plant Union Power Development Company

- ◆ Reduction of aesthetic appeal , unsuitable project site
- ◆ Source of local fishery , ecological system coral communities with good condition
- ◆ Air pollution problems
- ◆ Acid deposition (acid rain)
- ◆ Heated cooling water discharges



Public concerns about Hin Krut Power Plant Union Power Development Company (con't)



- ◆ Obstruction of local fishing boat due to long jetty
- ◆ Coal storage area and ash disposal site near to community area
- ◆ Social impacts and community conflicts
- ◆ Revised energy development plan due to economic crisis



Public concerns about Bo Nok Power Plant Gulf Power Generation



- ◆ Impacts on fishery , artificial reef due to jetty construction
- ◆ Reduction of young aquatic organism , plankton due to in take seawater and discharge heated cooling water
- ◆ Air pollution problems

Public concerns about Bo Nok Power Plant Gulf Power Generation (con't)

- ◆ Coal storage area and ash disposal site
- ◆ No public participation , social impact and community conflict
- ◆ Revision of energy development plan due to economic crisis

The Problems of Fossil Use and Power Plant

- ◆ Industrial development sector without the feasibility study of the project
- ◆ Lack of public participation for industrial development plan
 - No public involvement in environmental impacts of the project
 - No public information about benefits , impacts and mitigation measures of the project

Recommendations

- ♦ Strategic Environmental Assessment (SEA) should be taken into account to the policy planning process Example : energy use plan
- ♦ Environmental issues with project site selection
- ♦ Participation programme should begin before key decisions including
 - The early planning of the project
 - The feasibility level

Recommendations (con't)

- Site selection
- Environmental Impact Assessment period
- Construction phase
- Operation phase
- ◆ Technical information should be continuously given to the public and technical groups
- ◆ Consideration of all public concerns